



## Deloitte Director speaks at Kean on Business Chemistry®



Mr. Guy Fruda, Director, Northeast Regional Technology for Deloitte, visited Kean University on November 6, 2014. At Deloitte, Guy's responsibilities include end-user experiences for all IT-related matters in the northwestern region for Deloitte. During his talk at Kean, Guy spoke to students on the topic of "Business Chemistry".

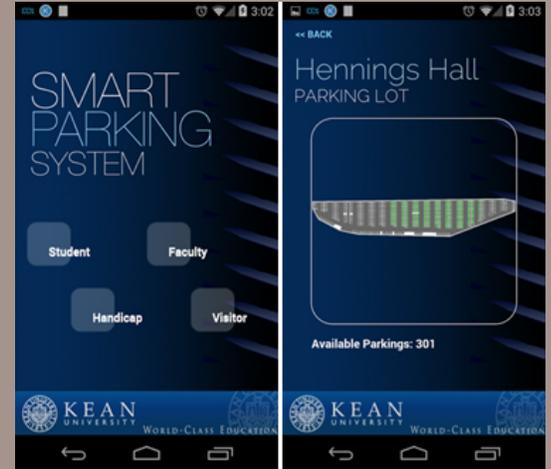
The Kean students in attendance had taken Deloitte's Business Chemistry® online survey before the talk, and received a summary of the results. Guy and his colleague, Mr. Abdul Kabia, an IT Project Manager at Deloitte who co-presented with Guy, had received the pooled survey results, and knew the difference personalities in the room. Developed for Deloitte, the Business Chemistry® approach builds on the four Business Chemistry patterns, with most people aligning closely with one or two of the Driver, Pioneer, Integrator, or Guarding patterns. As well as hearing more about their own personalities, and which type of teams and projects they would be well-suited for, students also guessed the Business Chemistry patterns of many well-known public individuals.

Guy, who first spoke at Kean in 2012 when he received the Kean ACM 2012 appreciation award, offered a number of suggestions to the students in the audience, and discussed the important of passion for their chosen careers. He encourages activities outside the classroom in addition to coursework, which helps students distinguish themselves to future employers, while discovering their own strengths and interests.

## Kean Smart Parking App – Great Ideas from our Great Students!

During spring semester 2014, under the direction of Dr. Jing-Chiou Liou of the Department of

Computer Science, eleven graduate students (photo on page 2) developed a 'smart parking system', which was tested on campus. This project uses image processing to detect parking spots and determine availability. The integrated technology solution developed by the students, which included roof-top cameras, provided parking choices in a cost-effective manner.



Target markers on parking spots identify the spots as either available, or, when covered up by a car, occupied. The information is relayed by camera to the mobile app, providing precise information on where available parking spaces in university lots. Each of the camera nodes is significantly less expensive than the standard sensor nodes most often used by systems of this kind. The project included an attractive splash screen design for both Android and iPhone apps, providing necessary information right where it is needed.

Dr. Liou's students designed, developed, implemented and tested the application with the cooperation of many campus groups, including Campus Police and Facilities. The final solution was a complement to all involved!



## Updates on Graduates

Sujith Bhashyam (CS '12) has completed his M.S. degree in Cybersecurity. Previously, he has worked at Accenture Federal Services. He has recently joined a U.S. government agency in a 'white hat' role related to cybersecurity. While at Kean, Sujith had an internship with the FBI.



Jason Bonafide (CS '13, MS '14) has joined NCR in Orlando, Florida, where he is a Software Engineer. While at Kean, Jason developed a mobile app for reporting utility outages and tracking service restoration.



David Heer (IT '14) joined ADP in Roseland, NJ. He is an Infrastructure and Operations Analyst in the Data Networking group. In November, David returned to Kean and spoke about his work. While at Kean, David had an internship at East Coast Warehouse.



Nathaly Lozano (CS '14) is working with Verizon, in Boston, MA, where she's working the databases, API, and distributed systems development. Outside of work, she is running an after school robotics program for students ages 12-14 and applying to graduate schools



Carlos Silva (CS'13, MS'14) joined Fast Technologies in Edison, NJ, using many of his project management skills. He's become certified as a Scrum Master in Agile Development. Carlos co-authored several published research papers.



## Updates on Students

Briana Gilbert (CS '15) was awarded a travel scholarship to attend the Grace Hopper Conference in Phoenix, Arizona in October 2014. During the conference, Briana heard many technical talks, and attended a career fair. This was the 4<sup>th</sup> consecutive year that a Kean University undergraduate has been awarded a scholarship to attend Hopper.



German Montenegro (CS '15) recently interned with John Wiley in Hoboken, NJ at their Global Technology/Enterprise Project Management Office. German heard about the position while attending an ACM talk by an Inroads.org speaker.



Smart Parking Team (from page 1) (Front, L to R) Joshua Lisojo (CS '13, MS '14), Jack Conway (CS '13, MS '14), Manjyoti Manchanda (MS '15), Pimpisa Predaswad (MS '14), Tejasri Dowluri (MS '14), Shruti Mishra (MS '14), Javier Olaya (CS '12, MS '14) (Back, L to R) Opeyemi Oyewold (MS '15), Isaac Buziba (MS '15), Nayan Bhavsar (MS '15), and Carlos Silva (CS '13, MS '14).

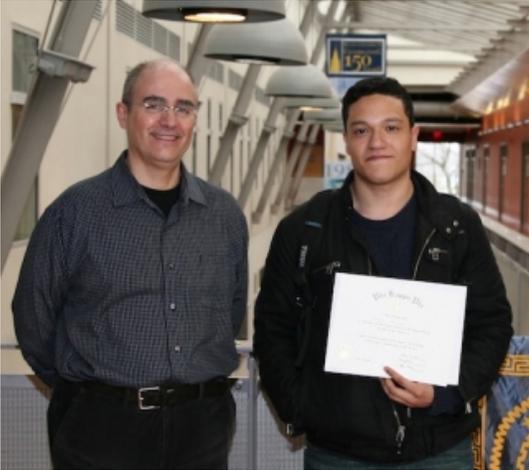
### NSF SCHOLARSHIPS FOR CS/ IT MAJORS



A 5-year grant from the National Science Foundation includes scholarships for CS and IT majors. Rising juniors or transfer students, U.S. citizens or permanent residents, are eligible to apply.

Brochures are available in the hallway, outside the Department office (Willis Room 408), or online at [www.pmorreale.com/nsf](http://www.pmorreale.com/nsf) **Please speak to your department faculty advisor if you'd like more information - and apply!**

# DANIEL PAREJA (CS '15) SELECTED AS THE FIRST RECIPIENT OF THE JOHN DOBOSIEWICZ RESEARCH DAY INTERDISCIPLINARY AWARD



*Daniel Pareja (CS '15), selected for the 2014 John Dobosiewicz Research Day Interdisciplinary Award by Kean's Phi Kappa Phi chapter. Daniel is with Dr. Miguel Mosteiro (left), his faculty advisor and mentor.*

Kean University Senior Daniel Pareja was awarded the John Dobosiewicz Research Day Interdisciplinary Award in December 2014 for his work entitled "Algorithmic Mechanisms for Reliable Internet-based Task Computing under Collusion." This work was supervised by his mentor, Dr. Miguel Mosteiro of the Department of Computer Science. Daniel plans to attend graduate school and, building upon the research skills he acquired at Kean, continue his work on machine learning, which is closely related to artificial intelligence. Daniel, a graduate of Elizabeth High School in Elizabeth, NJ, expects to receive his B.S. Computer Science degree in May 2015.

Pareja and Mosteiro's work, in collaboration with scholars from other countries, deals the thesis that the pure equilibria model performs optimally on average. Their work has been accepted for publication with the application of game theory concepts to Internet-based distributed computing. Their research findings reinforced at the Public Library of Science Journal (PLOS ONE). Daniel also presented at the G- LSAMP 6th Annual Conference in October 2014.

## STUDENT LEARNING OUTCOMES (SLOS)

**What are you learning? How does it fit together?** Listed here are the Student Learning Outcomes (SLOs) for the Computer Science Department. Each course in our curriculum is designed to contribute to one or more of the SLOs for the degree you are seeking. Please work closely with your faculty advisor to select the courses which will meet your degree requirements.

### B.S. Computer Science

**SLO1:** Apply knowledge of computing and mathematics appropriate to the discipline.

**SLO2:** Analyze a problem and identify and define the computing requirements appropriate to its solution.

**SLO3:** Design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.

**SLO4:** Use current techniques, skills, and tools necessary for computing practice.

### B.S. in Information Technology

**SLO1:** Ability to use and apply current technical concepts and practices in the core information technologies.

**SLO2:** Identify and analyze user needs and take them into account in the selection, creation, evaluation, and administration of computer-based systems.

**SLO3:** Effectively integrate IT-based solutions into the user environment.

**SLO4:** Understand best practices and standards and their applications.

### M.S. in Computer Information Systems

**SLO1:** Apply advanced knowledge of computing and mathematics appropriate to the discipline.

**SLO2:** Analyze a complex problem and identify and define the computing requirements appropriate to its solution.

**SLO3:** Design, implement, test, evaluate a computer-based system, process, component, or program to meet desired needs.

**SLO4:** Use advanced techniques and skills for analysis and presentation of the project necessary for computing practice.

# Kean's Student ACM Chapter - Plans for Spring 2015



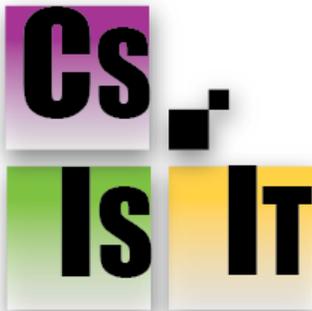
During fall, we hosted speakers from Verizon Wireless, Deloitte, and ADM. Plans are underway now for spring!

Join our efforts – lend us your talents for a successful event! Show off your skills or pick up some new talents!

- Feb. 5 Gamemaking in Python
- Feb. 12 Magic Hex Hack in Quake 3
- Feb. 19 PC Gaming and the Code behind
- Feb. 26 High Perf Computing with NVIDIA Graphics Cores
- Mar. 5 PC Security Exploits
- Mar. 26 Faculty Talk – Industry Experiences
- Apr. 2 Resume Prep
- Apr. 9 Mock Interview Workshop
- April 30 ACM Board Elections for next year

Apply now for upcoming Conferences – scholarships available for undergraduates who want to attend:

| Conference Name             | Purpose                | Location and Dates             | URL                 |
|-----------------------------|------------------------|--------------------------------|---------------------|
| Grace Hopper Conference     | Women in CS and IT     | Houston, TX; Oct. 14-16. 2-15  | gracehopper.org     |
| Richard Tapia Conference    | Undergrads in CS & IT  | Texas; September 2016          | tapiaconference.org |
| Soc. of Hispanic Prof Engrs | Hispanics in CS and IT | Baltimore, MD; Sep.11-15, 2015 | shpe.org            |



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